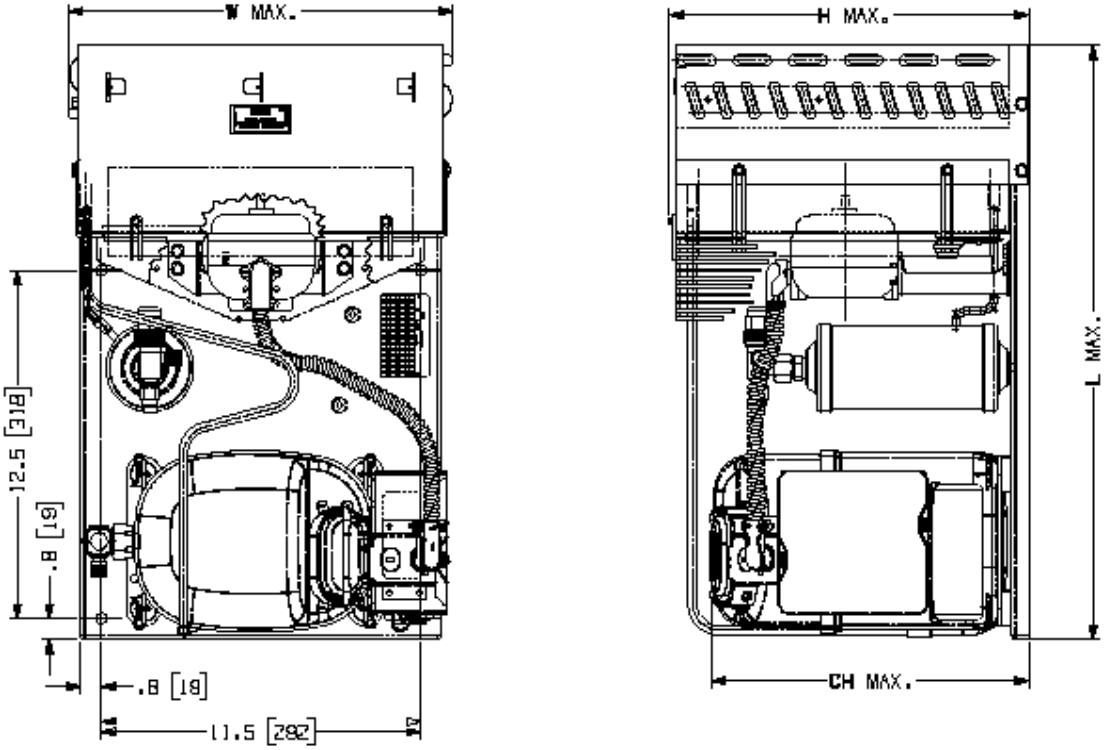
Release, 4/16/2003

Tecumseh Products Company
Hermetic Condensing Units

Model: AJA2429ZXAXC **R-404a** **3/4 HP** **AIR COOLED**



Note: Dimensioning = Inches [mm]

Model	Dimensions, inches				Line Connection*		Pump down	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AJA2429ZXAXC	21.3”	13.9”	13.0”	11.4”	½ Flare	¼ Flare	3 Lbs	800	29	77

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

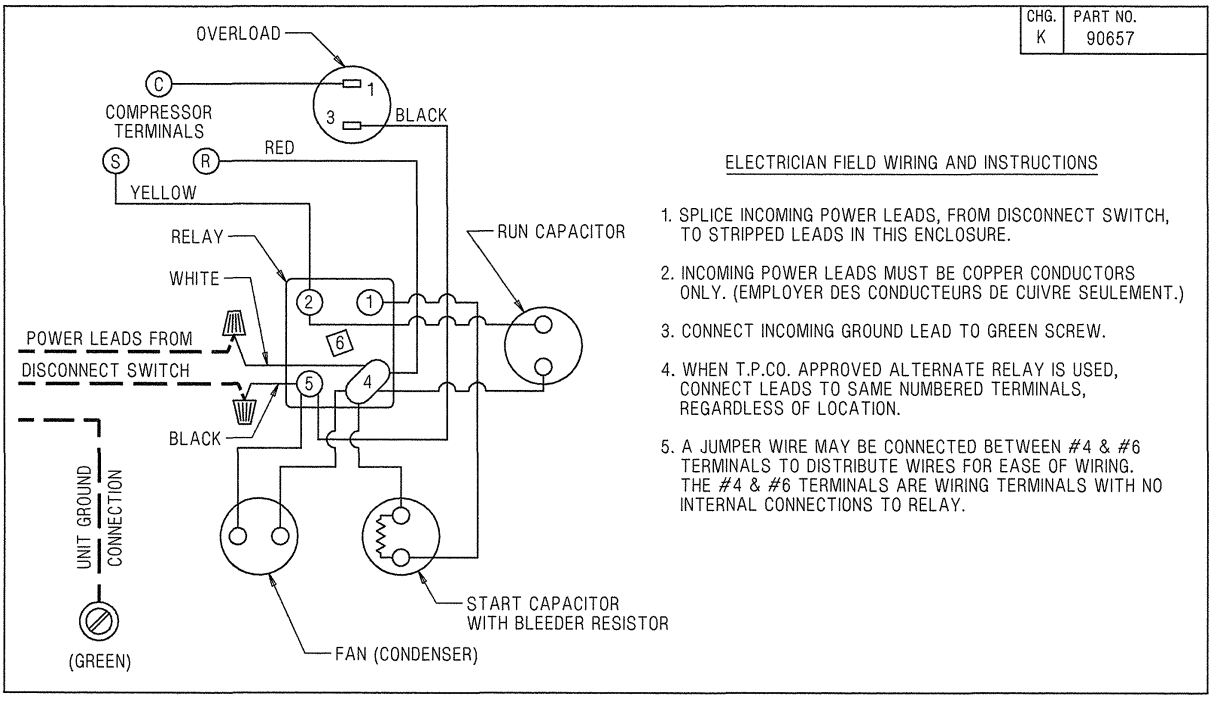
60 Hz Performance

		Ambient Temps															
Evaporator		80°F				90°F				100°F				110°F			
°F	PSIG	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-40	11.9	1140	514	195	87	842	479	223	96	540	442	255	105	176	376	283	113
-35	15.0	1492	571	200	89	1189	544	228	98	866	507	259	107	513	451	289	115
-30	18.4	1858	631	207	91	1545	612	235	100	1199	576	264	108	850	529	296	116
-25	22.1	2238	694	214	93	1909	681	242	102	1539	647	271	110	1188	609	303	118
-20	26.1	2633	760	221	96	2283	753	250	104	1886	722	279	112	1526	692	312	120
-10	30.4	3464	900	240	101	3057	904	268	109	2602	880	298	117	2203	863	331	125
-15	32.6	3041	828	230	98	2665	827	258	107	2240	799	288	114	1864	776	321	123
-5	35.0	3902	974	250	104	3457	982	279	112	2971	964	309	119	2542	952	342	127
0	40.0	4353	1051	261	107	3867	1063	290	115	3347	1051	321	122	2881	1043	354	130
5	45.4	4819	1130	273	110	4285	1147	302	118	3730	1140	334	125	3220	1136	367	133
10	51.2	5299	1213	285	114	4713	1232	315	121	4121	1233	348	129	3560	1231	380	136

Return gas temp. 40°F, 5°F sub cooling

Specifications:

Model	AJA2429ZXAXC		Model	AJA2429ZXAXC
Nominal Volts-Hz-Ph	115/60/1; 100/50/1		Condenser	50798-3
Unit Bill of Material	2E265-1		Receiver	51080-1
Voltage Range	103.5 to 126.5 Volt		Liquid Valve -Receiver	31584-1, ¼" Flare
Min. Circuit Ampacity	11.7		Rotolock Valve Gasket	30334
Max. Fuse Size (amps)	15		Suction Valve	31547-7, ½" Flare
Compressor Model	AJA2425ZXA		Rotolock Valve Gasket	30334
Comp. Bill of Material	AJ532AT-336-P2		Fan Shroud	70724-2
Alt. Comp. Bill of Mat.	----------		Fan Blade	51541-1
Compressor RLA/LRA	8.20 / 62.0		Fan Guard	71020
Overload	8300CRAN05			
Relay	820ARR3C22			
Alternate Relay	8200128G40			
Start Capacitor	855S165C47			
Start Capacitor Rating	270-324 µF / 165V			
Run Cap.	85PR370E36 or F40			
Run Cap. Rating	15 µF / 370 V			
Fan Motor	810M035A29		Unit Drawing	SU1893-61
Fan RLA	1.10		Electrical Drawing	90657


CHG. K
PART NO. 90657
OVERLOAD
C
COMPRESSOR TERMINALS
S
R
1
3
BLACK
RED
YELLOW
RELAY
WHITE
RUN CAPACITOR
POWER LEADS FROM
DISCONNECT SWITCH
2
1
6
5
4
BLACK
UNIT GROUND CONNECTION
(GREEN)
START CAPACITOR WITH BLEEDER RESISTOR
FAN (CONDENSER)
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS
1. SPLICE INCOMING POWER LEADS, FROM DISCONNECT SWITCH, TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.)
3. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
4. WHEN T.P.CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS, REGARDLESS OF LOCATION.
5. A JUMPER WIRE MAY BE CONNECTED BETWEEN #4 & #6 TERMINALS TO DISTRIBUTE WIRES FOR EASE OF WIRING. THE #4 & #6 TERMINALS ARE WIRING TERMINALS WITH NO INTERNAL CONNECTIONS TO RELAY.

S.E.